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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/716,369	11/18/2003	Jongsang Lee	5853-464	6670
30448	7590	03/23/2006		
AKERMAN SENTERFITT			EXAMINER	
P.O. BOX 3188			MOORE, MARGARET G	
WEST PALM BEACH, FL 33402-3188			ART UNIT	PAPER NUMBER
			1712	

DATE MAILED: 03/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.	Applicant(s)	
	10/716,369	LEE ET AL.	
	Examiner Margaret G. Moore	Art Unit 1712	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 11 January 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1 to 6, 10 to 21 is/are pending in the application.
- 4a) Of the above claim(s) 11 to 17 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1 to 6, 10 and 18 to 21 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 11 January 2006 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

<ol style="list-style-type: none"> 1)<input type="checkbox"/> Notice of References Cited (PTO-892) 2)<input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)<input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____. 	<ol style="list-style-type: none"> 4)<input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____. 5)<input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6)<input type="checkbox"/> Other: _____.
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1. Claims 18, 19 and 21 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

For claim 18, this limitation is not supported by the specification. Applicants allege support by noting that the boiling point of Me_3SiCl is 58°C. This does not support the newly added claim limitation since 1) Me_3SiCl is not a silane within the breadth of claim 1 because this claim requires a halosilane having two halogen groups and 2) a value of 58°C is certainly not sufficient to support the much broader range of less than 125°C.

For claim 19, the Examiner notes that paragraph 26 in the specification supports an excess of disilazane but not specifically a stoichiometric excess. The term "excess" is used in the specification on its own, but this could mean a molar excess, a weight excess, a stoichiometric excess, etc. Applicants have not provided adequate support for the phrase "stoichiometric excess".

2. Applicants' remarks indicate that they believe that the process of Bujalski results in preceramic polymers having significant Cl concentrations (see the bottom of page 12 of applicants' response). The claimed process steps, however, are fully met by the teachings in Bujalski et al. (see the prior art rejection). In view of this discrepancy, the following rejection is made.

3. Claims 1 - 6, 10 and 18 - 21 are rejected under 35 U.S.C. 112 second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: the steps that result in the alleged different chlorine content. That is, applicants state that the method steps in Bujalski et al., which meet those claimed, result in a different final product. Identical process steps cannot result in different products. Thus some essential step must be missing from the instant claims.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1 to 6, 10 and 18 to 21 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Bujalski et al.

Bujalski et al. teach a method of making a preceramic polymer comprising the steps of reacting a disilazane, a boron halide and a halosilane at a temperature between 125°C and 300°C. See for instance Example 3 which uses a disilazane meeting claim 2 and a boron halide and a halosilane meeting the requirements of claim 3. In this manner each of the claimed process steps are met by the prior art. Patentees are silent as to the chlorine content of the preceramic polymer.

Where applicant claims a composition in terms of a function, property or characteristic and the composition of the prior art is the same as that of the claim but the function is not explicitly disclosed by the reference, the examiner may make a rejection under both 35 U.S.C. 102 and 103, expressed as a 102/103 rejection. See MPEP 2112 (III).

In the instant application, applicants claim a process that results in a composition having a particular property. This property is not specifically taught by the prior art, but the process by which the composition is made is fully met by the prior art. Identical processes cannot result in different compositions. Thus the composition prepared by Bujalski et al. and that prepared by the claimed process must be the same. Even

though patentees are silent as to the chlorine content in the preceramic polymer prepared therein, it must be inherently the same as that claimed.

For claim 18, note that the methylsilane in Example 1 meets this boiling point. HMDZ in Example 3 is added in a stoichiometric excess, and xylene is included in this reaction process.

7. The drawings are objected to because newly added Figure 1(b) is not completely legible as "scanned" into the application. Note the substituent groups in intermediates (b) through (e). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

8. The amendment filed 1/11/06 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: the details found in newly added paragraph 17. Applicants have not provided any support for this newly added language.

Applicant is required to cancel the new matter in the reply to this Office Action.

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9. In response to the amendment to the specification, the Examiner makes the following notes:

Newly added paragraph [0015] appears to be intended for page 6, *lines 5-8*, not page 5, lines 5-8. Clarification is required, as the printers will not know where to insert this new paragraph. Also, as an aside, new paragraph [0016] appears to be covered by the first sentence in paragraph [0017]. This paragraph appears redundant.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Margaret G. Moore whose telephone number is 571-272-1090. The examiner can normally be reached on Monday to Wednesday and Friday, 10am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Margaret G. Moore
Primary Examiner
Art Unit 1712

mgm
3/21/06